

Fig. 1

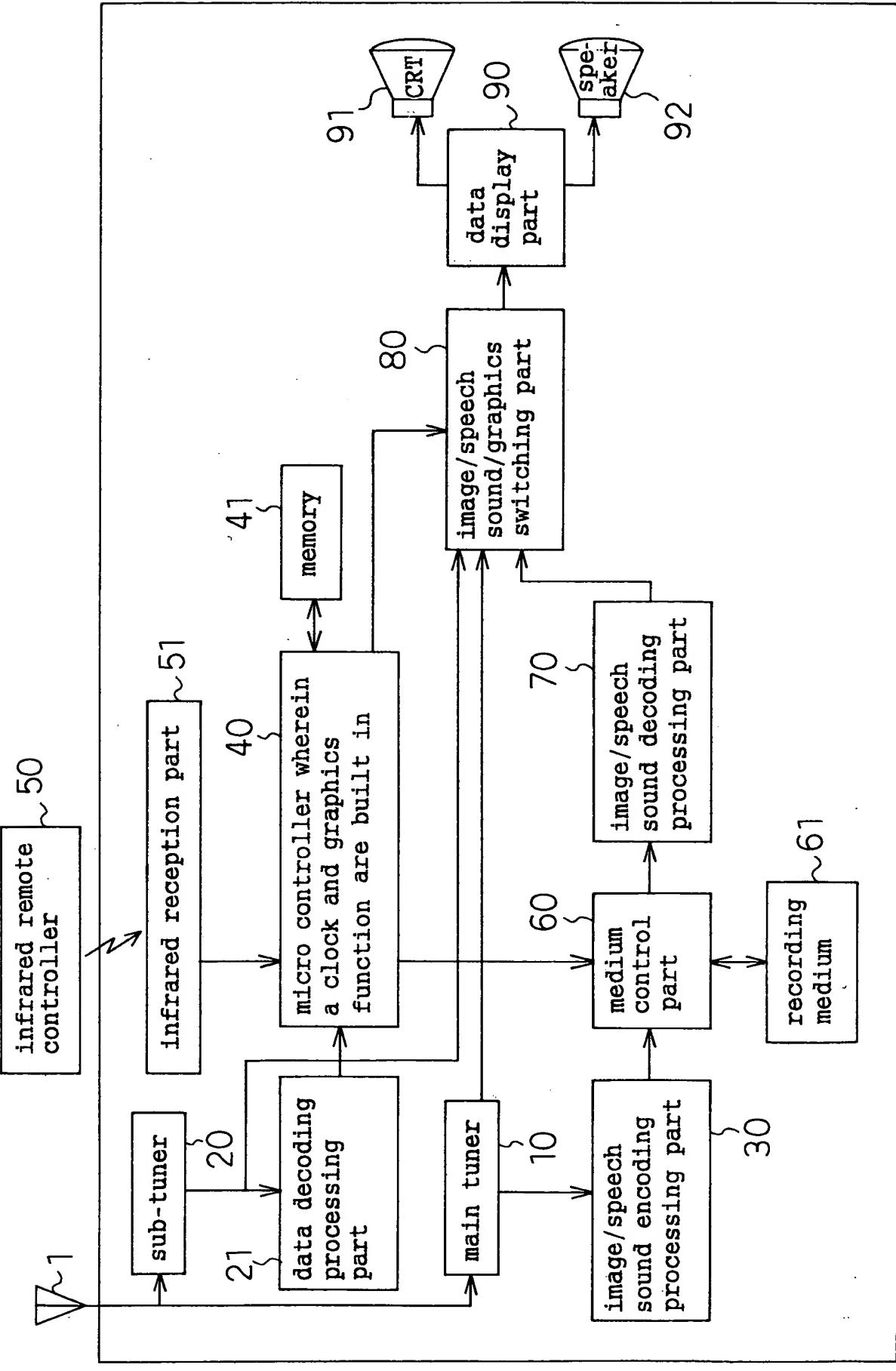


Fig. 2

program title	broadcast date and time	genre	program summary	television personalities	series information (broadcast mode)
News Seven (August 8)	1999/08/08/07:00 08:00	news	—	Taro Yamamoto	News Seven (continuous every day/ all year round)
Total Solar Eclipse (first)	1999/08/12/21:00 23:00	documentary	—	Hanako Yamashita Shotaro Kato	Total Solar Eclipse (continuous every day/ 1 of 2)
Total Solar Eclipse (second)	1999/08/13/21:00 23:00	documentary	—	Hanako Yamashita Shotaro Kato	Total Solar Eclipse (continuous every day/ 2 of 2)
Holiday in Los Angeles (Part 25 Secret)	1999/08/09/21:00 23:00	movie	Story of Tragic Love Set in Los Angeles	John Long Catherine Ross	Holiday in Los Angeles (continuous every week/ 25 of 50)
Holiday in Los Angeles (Part 26 Informer's Report)	1999/08/16/21:00 23:00	movie	Story of Tragic Love Set in Los Angeles	John Long Catherine Ross	Holiday in Los Angeles (continuous every week/ 26 of 50)
Professional Baseball Game A vs. B (eighth game)	1999/08/10/18:00 21:00	sports	—	—	Professional Baseball Game A vs. B (broadcast interval not determined/ 8 of 12)
It Will be Sunny Tomorrow (sixth)	1999/07/28/20:00 21:00	drama	—	—	It Will be Sunny Tomorrow (co- ntinuous every week/ 6 of 12)
It Will be Sunny Tomorrow(seventh)	1999/08/04/20:00 21:00	drama	—	—	It Will be Sunny Tomorrow (co- ntinuous every week/ 7 of 12)
It Will be Sunny Tomorrow (eighth)	1999/08/11/20:00 21:00	drama	—	—	It Will be Sunny Tomorrow (co- ntinuous every week/ 8 of 12)

Fig. 3

present time 1999/08/12 20:30 maximum recording time
 12 hours program erasure priority criterion broadcast
 start date and time

channel	program group title	program group recording conditions	program group erasure possibility conditions	recording setting	viewer limitation (password)	program recording condition (recording time)	total usage time
12	News Seven	recording of newest program (1)	erasable	A	nil	recorded (1 hour) 1999/08/11/07:00-1999/08/12/07:00	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nil	recorded (2 hour) 1999/08/09/21:00-1999/08/16/21:00	4 hours in total
08	Professional Baseball Game A vs. B	—	erasable	A	exists (***)	recorded (3 hour) 1999/08/10/18:00	3 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	nil	recorded (1 hour) 1999/07/28/20:00-1999/08/04/20:00	3 hours in total

Fig. 4

present time 1999/08/12 20:30 maximum recording time
 12 hours program erasure priority criterion broadcast
 start date and time

Channel	Program group title	program group recording conditions	program group erasure possibility conditions	Viewer limitation (password)	program recording condition (recording time)	total usage time
12	News Seven	recording of newest program (1)	erasable	A	recorded (1 hour) 1999/08/11/07:00 1999/08/12/07:00	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nil	
08	Professional Baseball Game A vs. B	—	erasable	A	recorded (2 hours) 1999/08/09/21:00 1999/08/10/21:00	4 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	exists (***)	
12	Total Solar Eclipse	recording of programs (all)	non-erasable	A	recorded (3 hours) 1999/08/10/18:00 1999/08/11/20:00	3 hours in total
					recorded (1 hour) 1999/07/28/20:00 1999/08/04/20:00	3 hours in total
					set for recording (2 hours) 1999/08/12/21:00 1999/08/13/21:00	4 hours in total

Fig. 5

present time 1999/08/12 20:41 maximum recording time
 12 hours program erasure priority criterion broadcast
 start date and time

channel	program group title	program group recording conditions	program group erasure possibility conditions	recording setting	viewer limitation (password)	program recording condition (recording time)	total usage time
12	News Seven	recording of newest program (1)	erasable	A	nil	recorded (1 hour) 1999/08/11/07:00	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nil	recorded (2 hour) 1999/08/09/21:00	4 hours in total
08	Professional Baseball Game A vs. B	recording of newest program (3)	erasable	A	exists (***)	recorded (3 hour) 1999/08/10/18:00	3 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	nil	recorded (1 hour) 1999/07/28/20:00	3 hours in total
12	Total Solar Eclipse	recording of programs (all)	non-erasable	A	nil	set for recording (2 hours) 1999/08/12/21:00	4 hours in total

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present time 1999/08/13 21:00 maximum recording time
12 hours program erasure priority criterion broadcast
start date and time

channel	program group title	program group recording conditions	program group erasure possibility conditions	recording setting	viewer limitation (password)	program recording condition (recording time)	total usage time
12	News Seven	recording of newest program (1)	erasable	A	nill	recorded (1 hour) 1999/0811/07:00	2 hours in total
10	Holiday in Los Angeles	recording of newest program (2)	non-erasable	B	nill	recorded (2 hour) 1999/0809/21:00	4 hours in total
06	It Will be Sunny Tomorrow	recording of newest program (3)	non-erasable	C	nill	recorded (2 hour) 1999/0728/20:00	3 hours in total
12	Total Solar Eclipse	recording of programs (all)	non-erasable	A	nill	recorded (2 hour) 1999/0812/21:00	4 hours in total

Fig. 7

recording setter A password		C		B		A		present time 1999/08/12 20:40 maximum recording time 12 hours program erasure priority criterion broadcast start date and time	
channel	program title	program group recording conditions	program group erasure possibility conditions	program recording condition (recording time)					
12	News Seven	recording of newest program (1)	erasable	recorded (1 hour) 1999/08/12/07:00	recorded (1 hour) 1999/08/12/07:00				
08	Professional Baseball Game A vs. B					recorded (3 hour) 1999/08/10/18:00			
12	Total Solar Eclipse	recording of programs (all)	non-erasable	set for recording (2 hours) 1999/08/12/21:00	set for recording (2 hours) 1999/08/13/21:00				

Fig. 8

recording setter A password		C		B		A		present time 1999/08/12 20:41 maximum recording time 12 hours program erasure priority criterion broadcast start date and time	
channel	program title	program group recording conditions	program group erasure possibility conditions	program recording condition (recording time)	recorded (1 hour) 1999/08/12/07:00	recorded (1 hour) (1 hour) 1999/08/12/07:00	recorded (3 hour) 1999/08/10/18:00	set for recording (2 hours) 1999/08/13/21:00	set for recording (2 hours) 1999/08/13/21:00
12	News Seven	recording of newest program (1)	erasable						
08	Professional Baseball Game A vs. B								
12	Total Solar Eclipse	recording of programs (all)	non-erasable						

Fig. 9

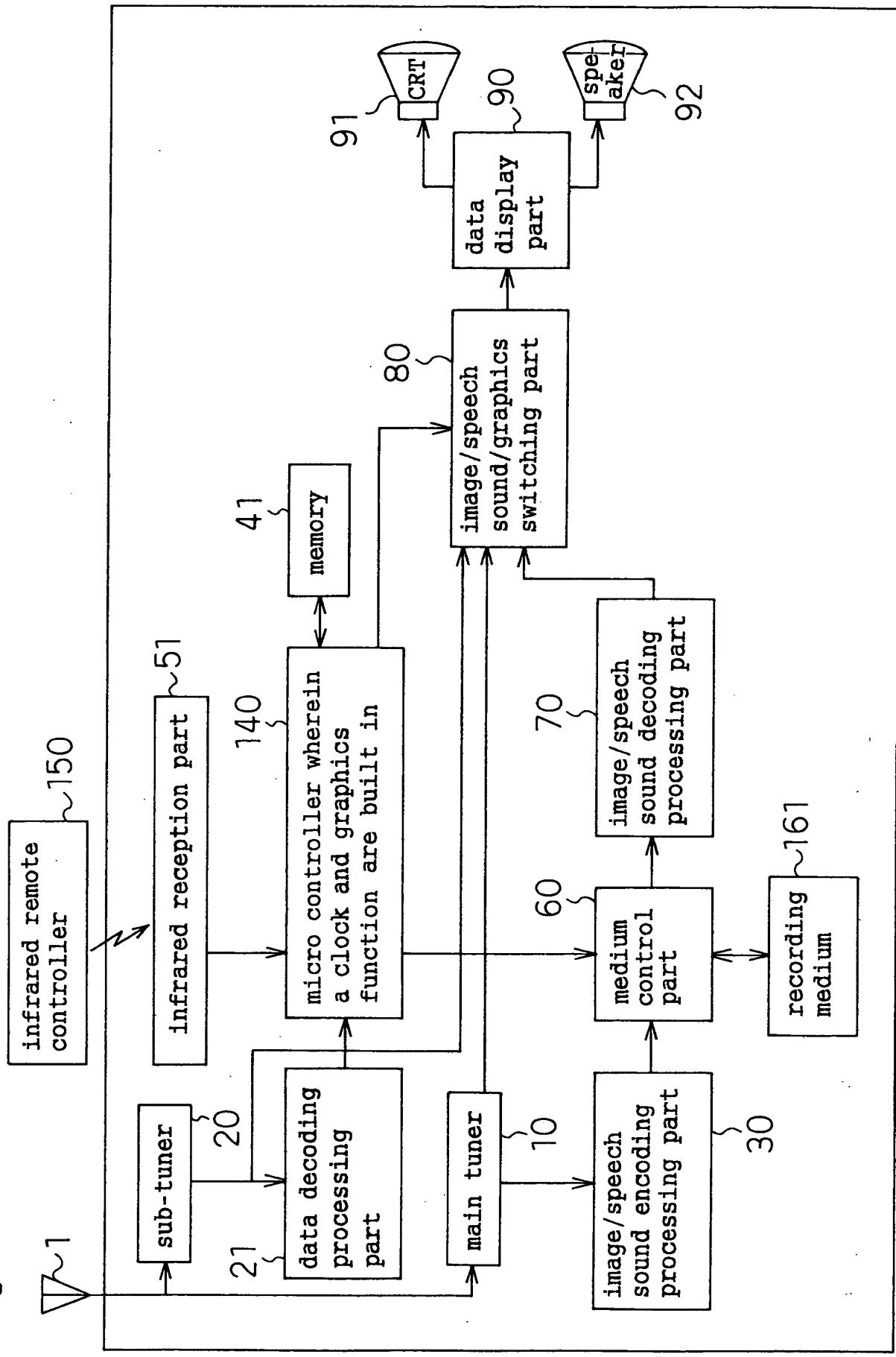


Fig. 10

present time 1997/04/09 10:00
maximum recording capacity 8.5GB

Recorded program		program title	program recording capacity	broadcast date and time	start	number of playbacks/dubbings	erasure possibility
12ch	News ABC		1 GB	97/04/01 18:01		1	erasable
2ch	Drama XYZ		1 GB	97/04/01 19:00		1	non-erasable
6ch	Baseball Game ab vs. cd 01		2GB	97/03/18 18:00		1	erasable
6ch	Baseball Game ab vs. cd 02		2GB	97/03/19 18:00		0	erasable
12ch	English Conversation 3		0.5GB	97/03/18 06:00		5	erasable
12ch	News CDF 2		1 GB	97/04/08 18:01		1	erasable
4ch	Drama XXX		1 GB	97/04/08 19:00		0	erasable
capacity management		already recorded capacity 8.5GB re-writable capacity 7.5GB		vacant capacity 0GB	non-erasable capacity 1GB		

Recording programs set for		program title	program recording capacity	broadcast date and time	start	number of playbacks/dubbings	erasure possibility
6ch	Baseball Game ab vs. cd 12		3GB	97/04/09 18:00		0	non-erasable

Fig. 11

present time 1997/04/09 10:10
maximum recording capacity 8.5GB

Recorded program		program title	program recording capacity	broadcast start date and time	number of playbacks/dubbings	erasure possibility
12ch	News ABC	1GB		97/04/01 18:01	1	erasable
2ch	Drama XYZ	1GB		97/04/01 19:00	1	erasable
6ch	Baseball Game ab vs. cd 01	2GB		97/03/18 18:00	1	erasable
6ch	Baseball Game ab vs. cd 02	2GB		97/03/19 18:00	0	erasable
12ch	English Conversation 3	0.5GB		97/03/18 06:00	5	non-erasable
12ch	News CDF 2	1GB		97/04/08 18:01	1	erasable
4ch	Drama XXX	1GB		97/04/08 19:00	0	erasable
capacity management	recorded capacity 8.5GB re-writable capacity 8GB	vacant capacity 0GB	non-erasable capacity 0.5GB			
Programs set for recording		program title	program recording capacity	broadcast start date and time	number of playbacks/dubbings	erasure possibility
6ch	Baseball Game ab vs. cd 12	3GB		97/04/09 18:00	0	non-erasable
6ch	Baseball Game ab vs. cd 13	1.5GB		97/04/12 18:00	0	erasable
capacity management	capacity for programs set for recording 4.5GB potential capacity for programs set for recording 3.5GB					

Fig. 12

present time 1997/04/09 10:00
maximum recording capacity 8.5GB

program erasure priority criterion	program title	program recording capacity	erasure priority	erasure plan (date and time)
playback number	broadcast start date and time			
playback once	97/03/18 18:00 97/04/01 18:01 97/04/01 19:00	Baseball Game ab vs. cd 01 News ABC Drama XYZ	2 GB 1 GB 1 GB	first second non-erasable
	97/04/08 18:01	News CDF	1 GB	third
playback twice or more	97/03/18 06:00	English Conversation 3	0.5GB	fourth
no playback	97/03/19 18:00 97/04/08 19:00	Baseball Game ab vs. cd 02 Drama XXX	2 GB 1 GB	fifth sixth
set for recording	97/04/09 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable

Fig. 13

present time 1997/04/09 10:10
 maximum recording capacity 8.5GB

program erasure priority criterion	program title	program recording capacity	erasure priority	erasure plan (date and time)
playback number once	97/03/18 18:00 Baseball Game ab vs. cd 01	2GB	first	erasure plan (4/9 18:00)
	97/04/01 18:01 News ABC	1GB	second	erasure plan (4/9 18:00)
	97/04/01 19:00 Drama XYZ	1GB	third	erasure plan (4/12 18:00)
	97/04/08 18:01 News CDF	1GB	fourth	erasure plan (4/12 18:00)
playback twice or more	97/03/18 06:00 English Conversation 3	0.5GB	non-erasable	
no playback	97/03/19 18:00 Baseball Game ab vs. cd 02	2GB	fifth	
	97/04/08 19:00 Drama XXX	1GB	sixth	
set for recording	97/04/09 18:00 Baseball Game ab vs. cd 12	3GB	non-erasable	
	97/04/12 18:00 Baseball Game ab vs. cd 13	1.5GB	seventh	

Fig. 14 screen

present time 1997/04/09 10:00				
broadcast start date and time	program title	program recording capacity	erasure priority	erasure plan (date and time)
97/03/18 18:00	Baseball Game ab vs. cd 01	2GB	first	<input type="checkbox"/> erasure plan (4/9 18:00)
97/04/01 18:01	News ABC	1GB	second	<input type="checkbox"/> erasure plan (4/9 18:00)
97/04/01 19:00	Drama XYZ	1GB	non-erasable	<input type="checkbox"/>
97/04/08 18:01	News CDF	1GB	third	<input type="checkbox"/> erasure plan (4/12 18:00)
97/03/18 06:00	English Conversation 3	0.5GB	fourth	<input type="checkbox"/> erasure plan (4/12 18:00)
97/03/19 18:00	Baseball Game ab vs. cd 02	2GB	fifth	<input type="checkbox"/>
97/04/08 19:00	Drama XXX	1GB	sixth	<input type="checkbox"/>
97/04/09 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable	<input type="checkbox"/> set for recording
97/04/12 18:00	Baseball Game ab vs. cd 13	1.5GB	seventh	<input type="checkbox"/> set for recording

non-erasable

re-writable 3.5GB usage confirmed planned

usage planned

release

return

manual erasing/setting of release of recording

Fig. 15

screen

present time 1997/04/09 10:10

broadcast start date and time	program title	program recording capacity	erasure priority	erasure plan (date and time)	erasure plan (4/9 18:00)	erasure plan (4/9 18:00)	erasure plan (4/12 18:00)															
97/03/18 18:00	Baseball Game ab vs. cd 01	2GB	first	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/04/01 18:01	News ABC	1GB	second	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/04/01 19:00	Drama XYZ	1GB	third	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/04/08 18:01	News CDF	1GB	fourth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/03/18 06:00	English Conversation 3	0.5GB	non-erasable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/03/19 18:00	Baseball Game ab vs. cd 02	2GB	fifth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/04/08 19:00	Drama XXX	1GB	sixth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/04/09 18:00	Baseball Game ab vs. cd 12	3GB	non-erasable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97/04/12 18:00	Baseball Game ab vs. cd 13	1.5GB	seventh	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

non-erasable

re-writable 3.5GB usage confirmed

usage planned

manual setting of release of erasing/recording

present time 1997/04/09 10:10

return

release

Fig. 16

screen

present time 1997/04/09 10:10

non-erasable

usage	usage confirmed	planned
re-writable 3.5GB		

Fig. 17

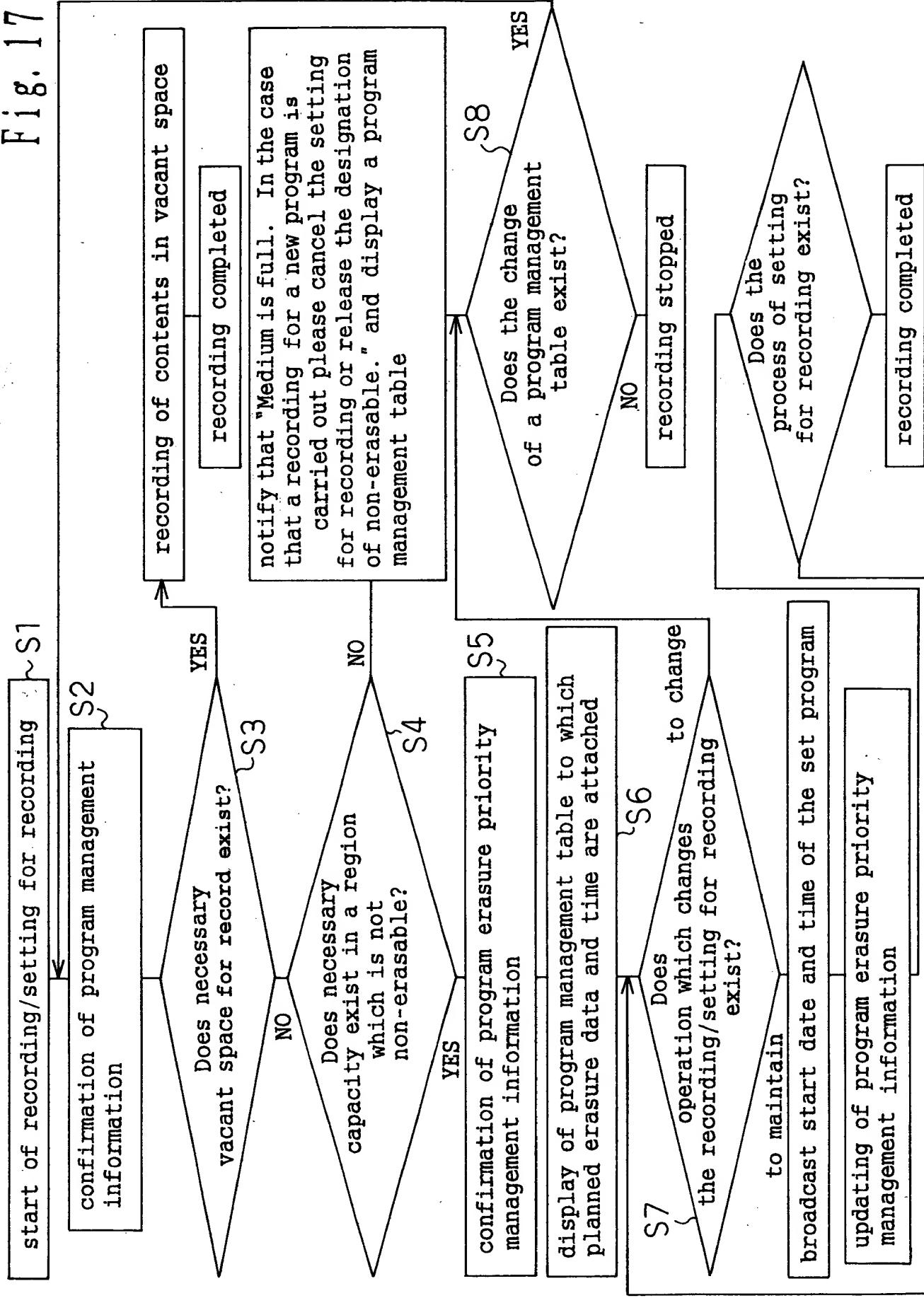


Fig. 18 PRIOR ART

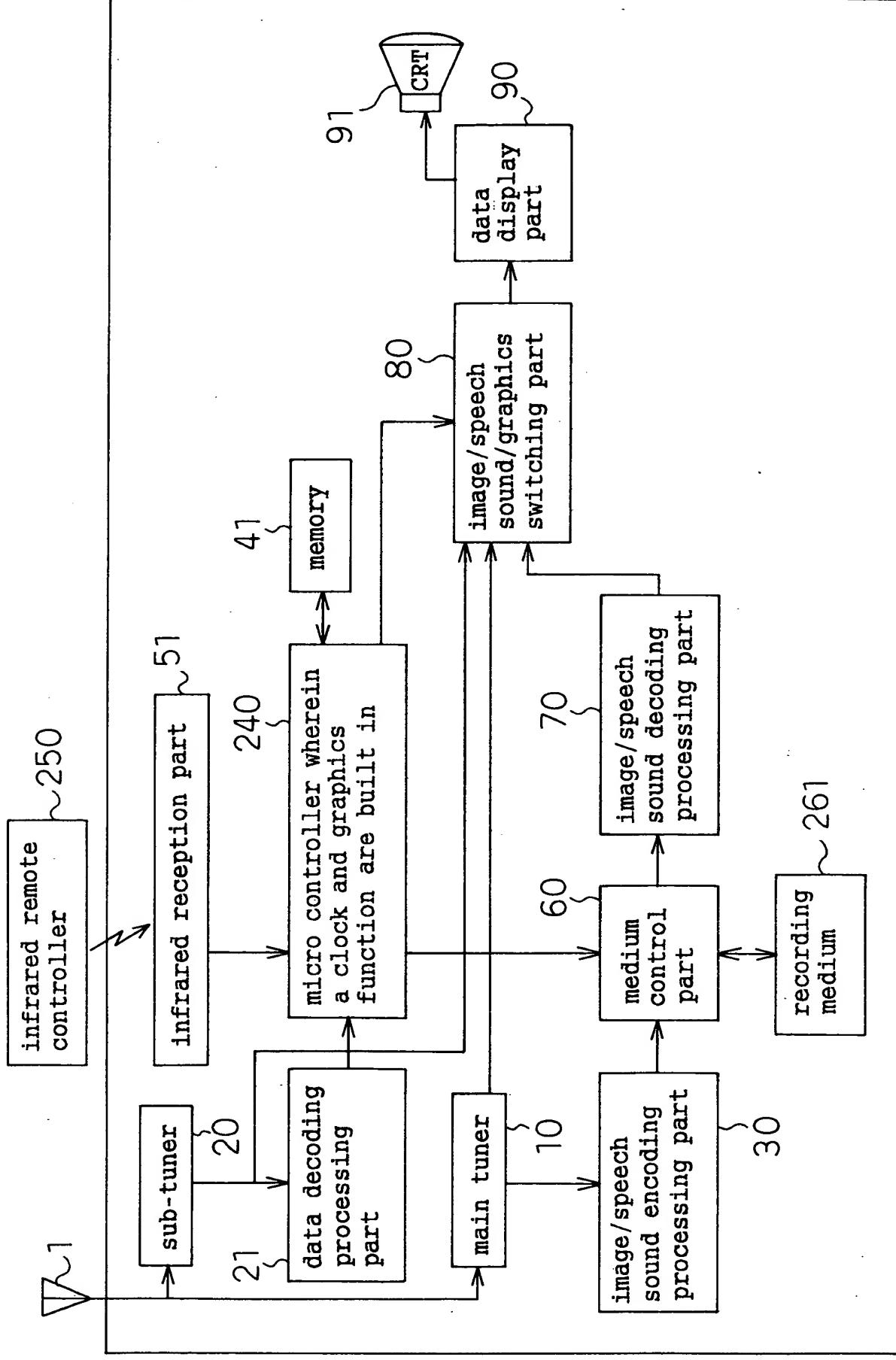


Fig. 19 PRIOR ART

present time 1999/08/12 20:30 maximum recording time
 12 hours program erasure priority criterion broadcast
 start date and time

channel	program group title	program group recording conditions	program recording condition (recording time)
12	News Seven	recording of newest program (1)	recorded (1 hour) 1999/08/11/07:00
10	Holiday in Los Angeles	recording of newest program (2)	recorded (2 hour) 1999/08/09/21:00
08	Professional Baseball Game A vs. B	—	recorded (3 hour) 1999/08/10/18:00
06	It Will be Sunny Tomorrow	recording of newest program (3)	recorded (1 hour) 1999/07/28/20:00
			recorded (1 hour) 1999/08/04/20:00
			recorded (1 hour) 1999/08/11/20:00

Fig. 20 PRIOR ART

present time 1999/08/12 20:30 maximum recording time
 12 hours program erasure priority criterion broadcast
 start date and time

channel	program group title	program group recording conditions	program recording condition (recording time)
12	News Seven	recording of newest program (1)	recorded (1 hour) 1999/08/11/07:00
10	Holiday in Los Angeles	recording of newest program (2)	recorded (2 hour) 1999/08/09/21:00
08	Professional Baseball Game A vs. B	_____	recorded (3 hour) 1999/08/10/18:00
06	It Will be Sunny Tomorrow	recording of newest program (3)	recorded (1 hour) 1999/07/28/20:00
12	Total Solar Eclipse	recording of programs (all)	set for recording (2 hours) 1999/08/12/21:00

Fig. 21 PRIOR ART

present time 1999/08/12 21:00 maximum recording time
 12 hours program erasure priority criterion broadcast
 start date and time

channel	program group title	program group recording conditions	program recording condition (recording time)
12	News Seven	recording of newest program (1)	recorded (1 hour) 1999/08/11/07:00
10	Holiday in Los Angeles	recording of newest program (2)	recorded (2 hour) 1999/08/09/21:00
08	Professional Baseball Game A vs. B	-----	recorded (3 hour) 1999/08/10/18:00
06	It Will be Sunny Tomorrow	recording of newest program (3)	recorded (1 hour) 1999/07/28/20:00
12	Total Solar Eclipse	recording of programs (all)	recording (2 hours) 1999/08/12/21:00
			set for recording (2 hours) 1999/08/13/21:00